

Installation Accessories

Low Voltage Disconnect-LVD



Discharging batteries beyond a critical low voltage can damage the batteries and/or load, and require a longer recharge interval. A low voltage disconnect prevents this condition. The LVD contains a sense and control circuit housed in a compact, rugged, vinyl-clad aluminum case. It is installed in-line between the battery and the load. The unit continually monitors battery voltage and if it falls below a preset voltage threshold, the load is automatically disconnected. When batteries are recharged past another pre-set voltage the load is reconnected. connect and disconnect points are user adjustable.

Models:

- LVD 12-30, LVD 12-75 (Neg. Ground)
- LVD 24-20, LVD 24-50 (Neg. Ground)
- LVD 48-30 (Pos. Ground)

For high current model, see PFM-400 Pg.25

Specifications

Factory Set Actuation Voltages:

	12 VOLT	24 VOLT	48 VOLT
Disconnect	10.4 VDC	21.0 VDC	42.0VDC
Connect	12.2 VDC	24.5 VDC	49.0VDC

Voltage and Contact Current Ratings:

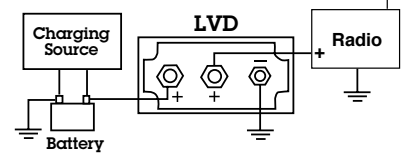
Indicated By Model Number (i.e., LVD 12-30 = 12 Volts, 30 amps Continuous)

Dimensions (mounted vertically, all models): 5.25" High x 5.25" Wide x 3.5" Deep

Weight: (All models): 1LB.

Operating Temperature: 0-50 °C

Typical LVD Installation



Emergency Relay/Charger - ERC

The E.R.C. allows emergency battery tie-in to a radio system that is normally operated by a power supply.

Under normal conditions the radio is connected through the ERC to the power supply and the back-up battery receives only a trickle charge to keep it in peak condition.

In the event of AC power failure a relay automatically connects the radio to the back-up battery, restoring the system within one second. When AC power is restored the radio is automatically reconnected to the power supply and the trickle charge resumes to the battery.

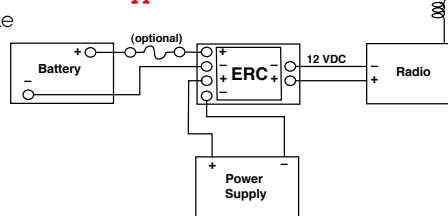
Available in 12 or 24 VDC, 15 or 35 Amp ratings, (not ignition protected.)

Application notes:

- 1 sec. switch over delay may not be suitable for data transceivers.



Typical ERC Installation



Instead, use a system where the battery is floated on output of power supply - see power Pac (pg 17) or IPS (pg 8) or APS (pg 26).

- Trickle charge current will maintain a back up battery but will not restore a deeply discharged battery. a separate high current charging source is required.

Specifications

ERC Model	Amps Int.	Amps Cont.	Size-inches			Lbs	Kg
			H	W	D		
12-15	15	10	2.25	2.875	4	1	.5
24-15	15	10	2.25	2.875	4	1	.5
12-35	35	30	3.875	2.875	4	2	.9
24-35*	35	30	3.875	2.875	4	2	.9

*Built to order

Typical Trickle Charge Current:

1.5 amps - will vary depending on power supply voltage and battery condition.

Optimal Power Supply Voltage:

12 volt systems: 13.4 - 14.0 VDC
24 volt systems: 26.8 - 28.0 VDC

Antenna/Coax Switches

Manual

Model: CS-201

Two position switch allows manual selection of one of two antennas with a single radio or one of 2 radios with a single antenna. Die cast aluminum case.



Power: 1.5 kW peak, 1kW continuous

Impedance: 50 ohm

Connectors: SO-239/UHF

Weight: 1Lb., .5Kg.

Remote

Model: RCS

Operates on 12 VDC, single pole, double throw. Permits remote selection of two antennas with a single radio.

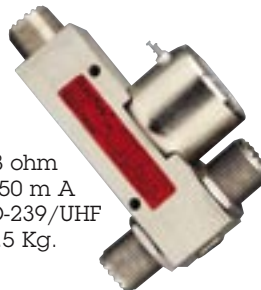
Power: 1Kw.

Impedance: 48 ohm

Coil Current: 250 m A

Connectors: SO-239/UHF

Weight: 1 Lb., .5 Kg.



Microphone Clips

All stainless steel. For securing standard VHF microphone when not in use. Lift to release.



Model: Spring Clip



Powering the Network